ProCenter 12:00 Delivery System & Assistant's Unit Installation Guide

CE 0088

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CABINET MOUNT ARM INSTALLATION

NOTE
When installing cabinet mount arm (1, Figure 1), the three holes (A) must be positioned toward the front of the cabinet for proper rotation.

(1) Align holes in cabinet mount arm (1, Figure 2) with threaded inserts beneath countertop. Secure mount arm (1) to countertop with four screws (2) but do not tighten screws.

(2) Place a level on the mount arm (1) and using leveling screws (3), level mount arm.

(3) After arm is level tighten mounting screws (3).

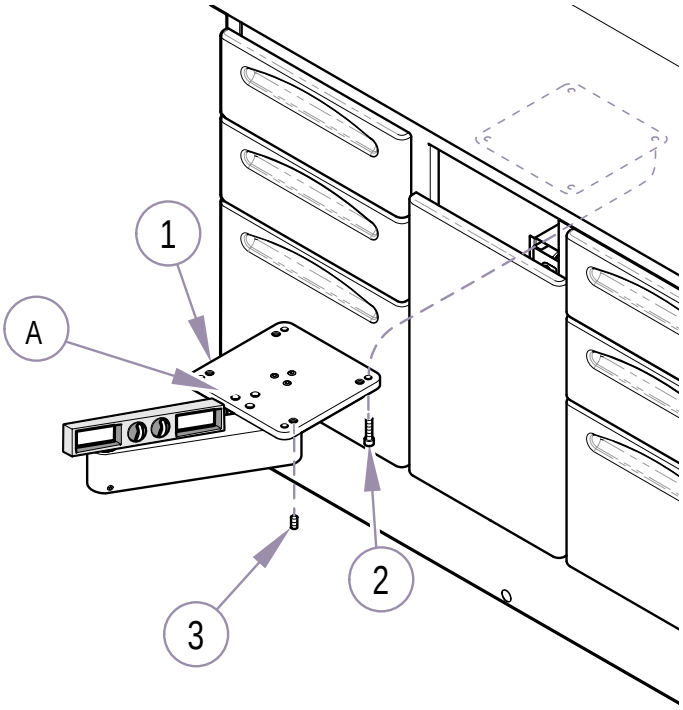

Figure 1. Cabinet Mount Arm Installation

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CONTROL PANEL INSTALLATION

(Delivery Unit only)

(1) Align control panel slide wheels (1, Figure 2) with opening at front of slide panel tracks (2).

(2) Push control panel down slightly until slide wheels (1) lock into slide panel tracks (2); then slide control panel inward.

(3) Slide control panel back and forth several times to ensure slide wheels (1) are properly engaged in slide panel tracks (2).

(4) Route foot control tubing (3) thru hole in front of base; then secure with bushing (4).

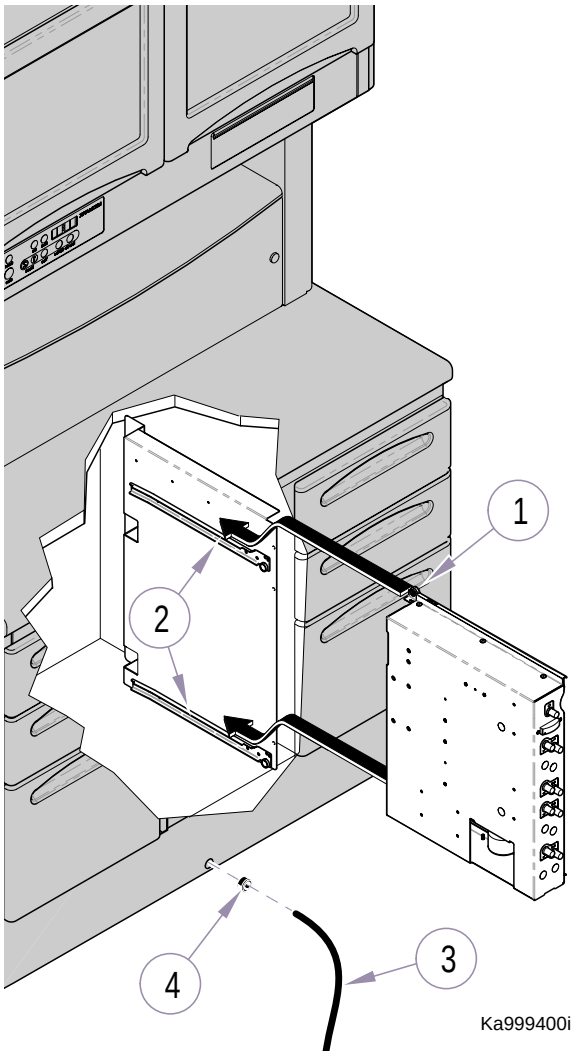

Figure 2. Control Panel Installation

REGULATOR INSTALLATION

Air Regulator

(1) Insert air regulator assembly (1, Figure 3) into air shut-off valve (2) as shown.

(2) Tighten compression nut (3).

Water Regulator

(3) Insert water regulator assembly (4) into water shut-off valve (5) as shown.

(4) Tighten compression nut (6).

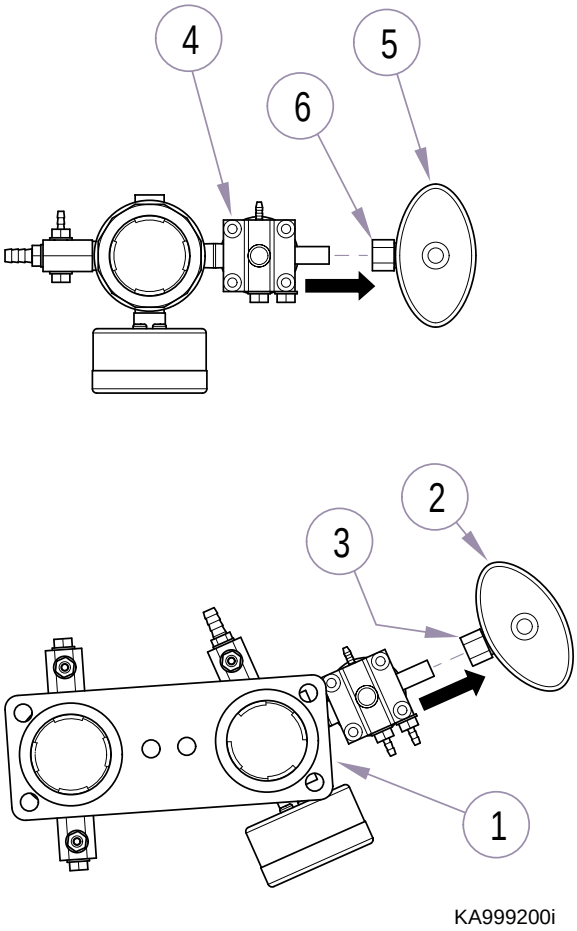

Figure 3. Regulator Installation

TUBING CONNECTIONS

NOTE
Figure 4 shows all possible connections for the 12:00 delivery system.
Foot control - delivery unit only.
Vacuum connection - assistant's unit only.

(1) Access air/water/vacuum connections.

(2) Connect all applicable tubing as shown in **Figure 4**. Use proper connectors where required. (Refer to ***Tubing Connectors*** section).

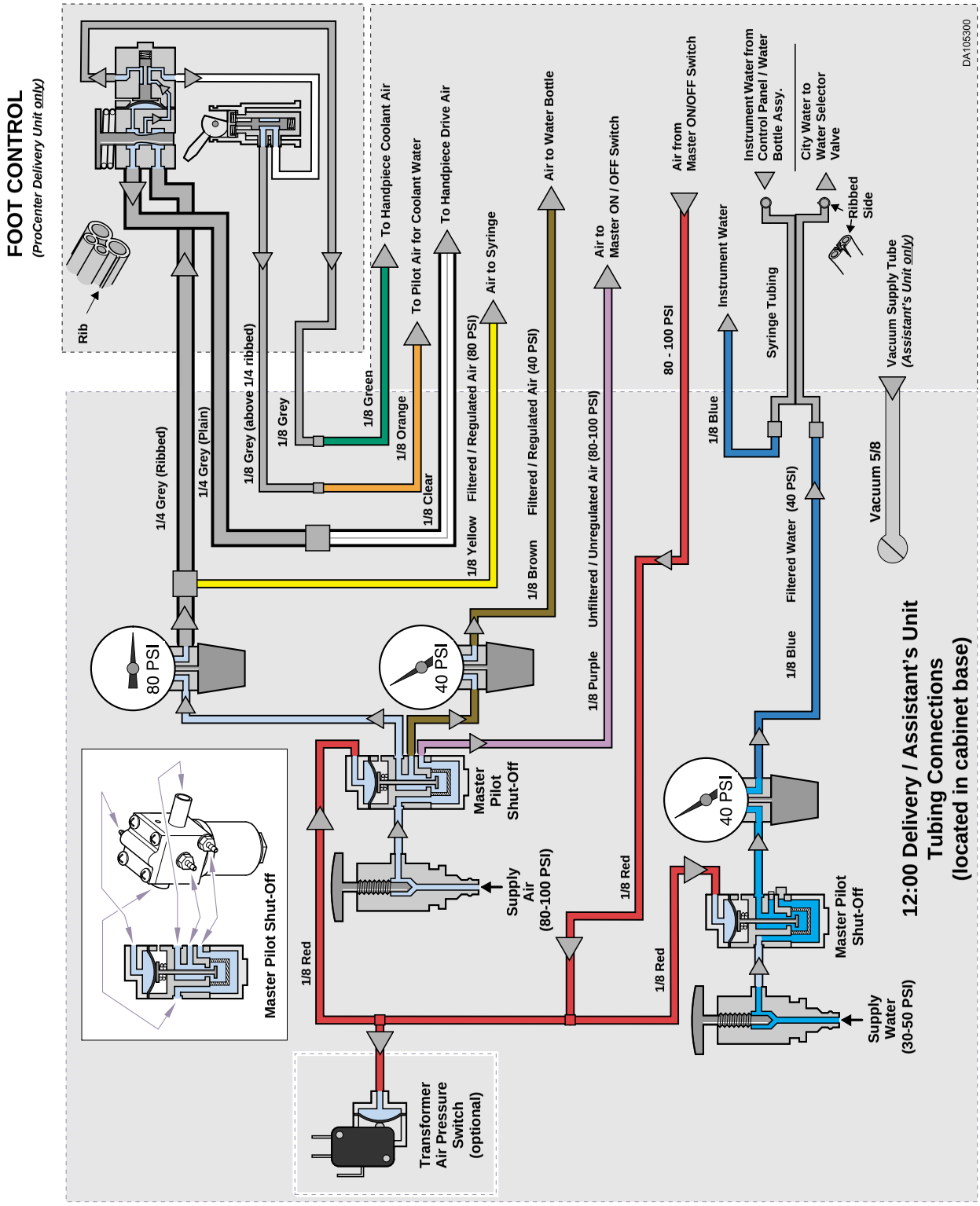

Figure 4. Tubing Connections

WORK SURFACE / UNIT MOUNT ARM INSTALLATION & ADJUSTMENT

(1) Remove mounting screws (1, Figure 5), washers (2), and leveling plate (3) from the work surface (4).

NOTE
The work surface can be installed using either set of mounting holes.

(2) Align desired set of mounting holes in work surface (4) with holes in leveling plate (3) and unit mount arm (5); then secure with four screws (1) and washers (2).

(3) Install two stop pins (6).

(4) Insert unit mount arm (5) into cabinet mount arm (7).

(5) Check work surface (4) for level. Loosen screws (1) and adjust leveling screws (8) if necessary; then tighten screws (1).

(6) Check drag at three **pivot points**. Loosen / tighten **set screw** at each pivot point as necessary.

CAUTION
The maximum weight the work surface will support is **40 lbs. (18 kg)**. Exceeding the weight limit may result in personal injury and/or damage to equipment.

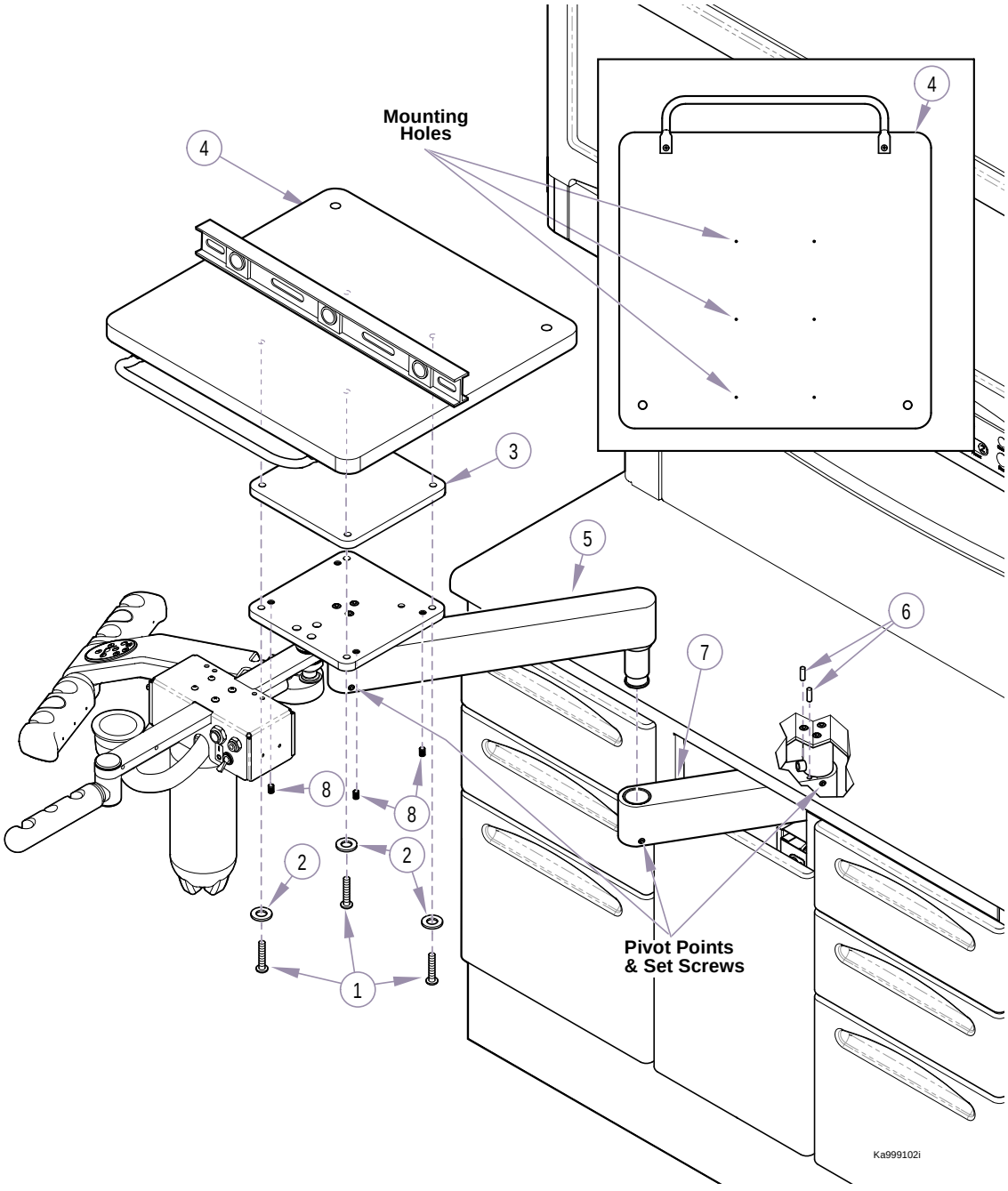

Figure 5. Work Surface / Unit Mount Arm Installation & Adjustment

ROUTING / SECURING TUBING

EQUIPMENT ALERT

When performing the following steps, leave sufficient slack in tubing bundle to allow movement of control panel / mounting arm. Failure to do so could result in disconnected or damaged tubing.

NOTE

Adhesive backed mounting platforms are provided for units without control panel. Apply mounting platform to inside of cabinet and secure vacuum tubing w/wire tie; then go to step 2.

(1) Bundle all tubing from rear of control panel (1, Figure 6) and secure to mounting platform (2) with wire tie (3).

(2) Bundle tubing (4) ***[from delivery / assistant's units]*** and install bracket (6); then secure bracket with two screws (8).

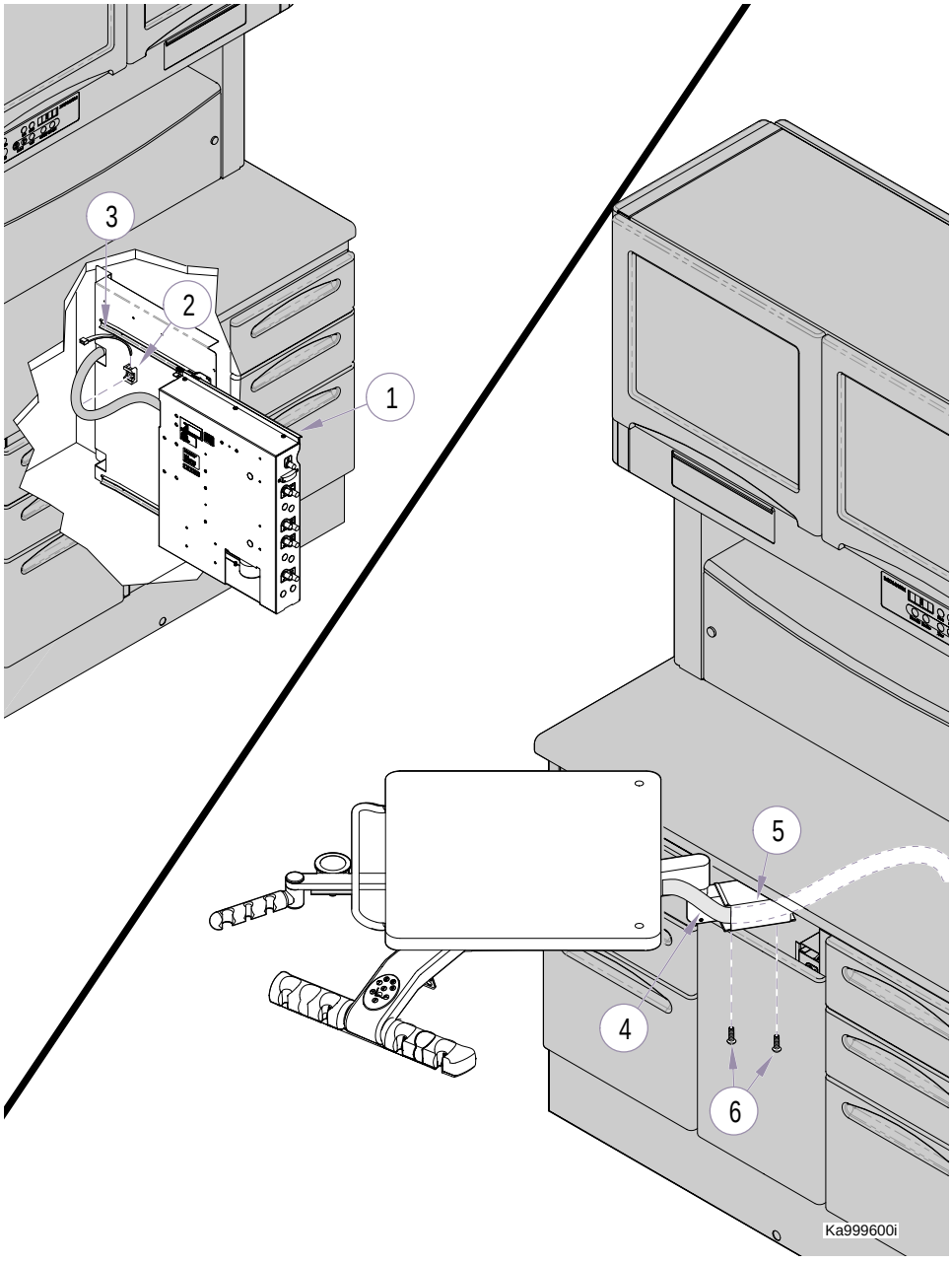

Figure 6. Routing / Securing Tubing

TRAY / TUB ASSEMBLY INSTALLATION

(1) Remove appropriate hole plug (1, Figure 7).

(2) Insert flange bearing (2); then install tray / tub assembly (3).

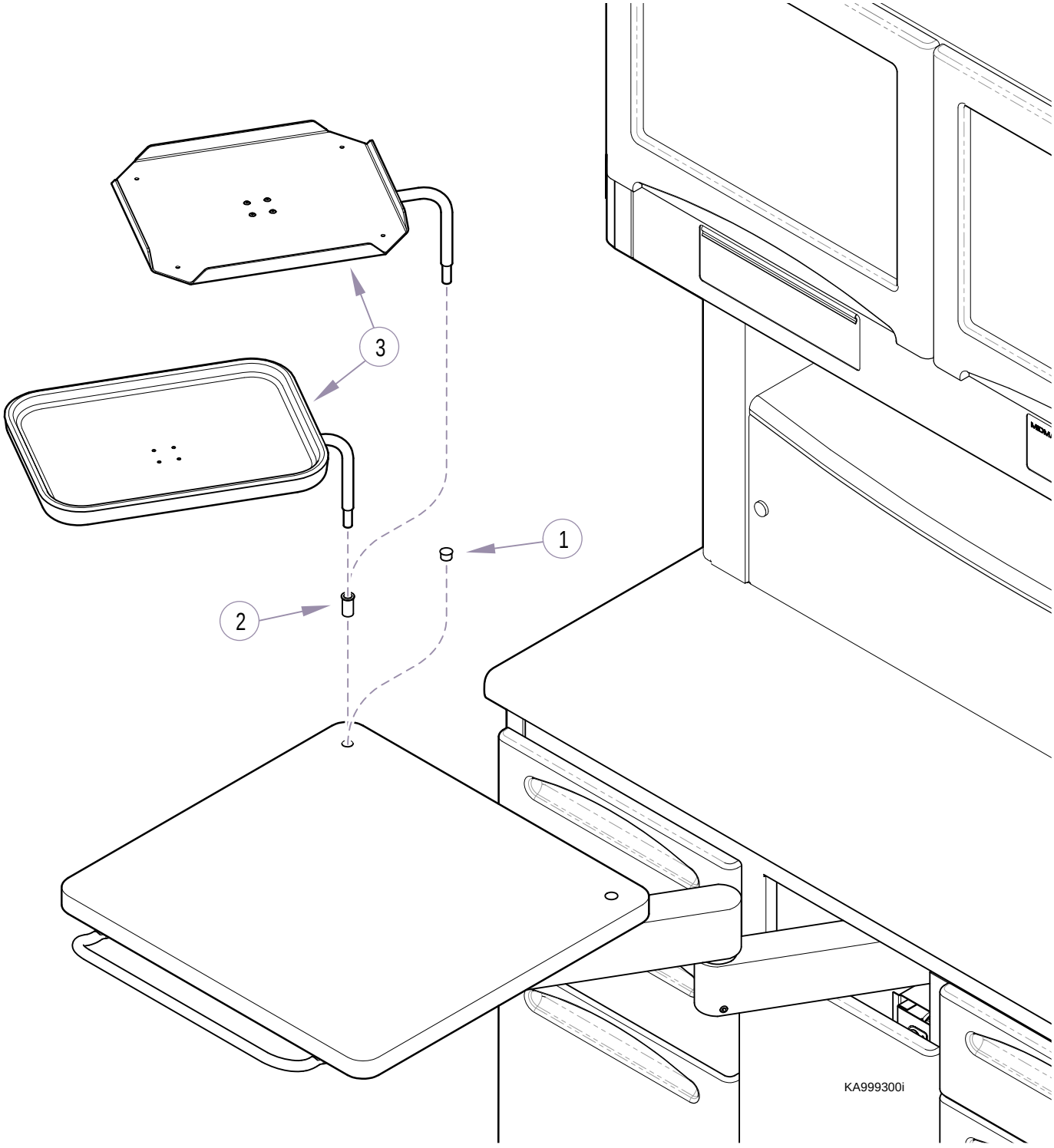

Figure 7. Tray / Tub Assembly Installation

CHAIR CONTROL TOUCH PAD CONNECTION - *Optional*

ATTENTION!
The following procedure applies only when using this delivery system with a Midmark Dental Chair. If not using a Midmark Dental Chair, or if delivery system does not include the optional Chair Position Touch Pad, this procedure is not necessary.

(1) Connect 15 ft. wiring harness (1, Figure 8) ***[included with delivery system]*** to touch pad wiring harness (2) ***[from control panel]***.

NOTE
The wiring harness may be routed from casework to chair as desired (ex. conduit, under carpet, etc.).

(2) Route wiring harness (1) out thru hole in front of base; then install bushing (3).

(3) Route wiring harness (1) behind base cover (4) of chair.

(4) Remove three screws (5) and hydraulic cover (6).

(5) Connect 12 in. wire harness extension (7) ***[included with delivery system]*** to J2 position on chair PC board (8).

(6) Connect wiring harness (1) to wire harness extension (7).

(7) Replace hydraulic cover (6) and secure with three screws (5).

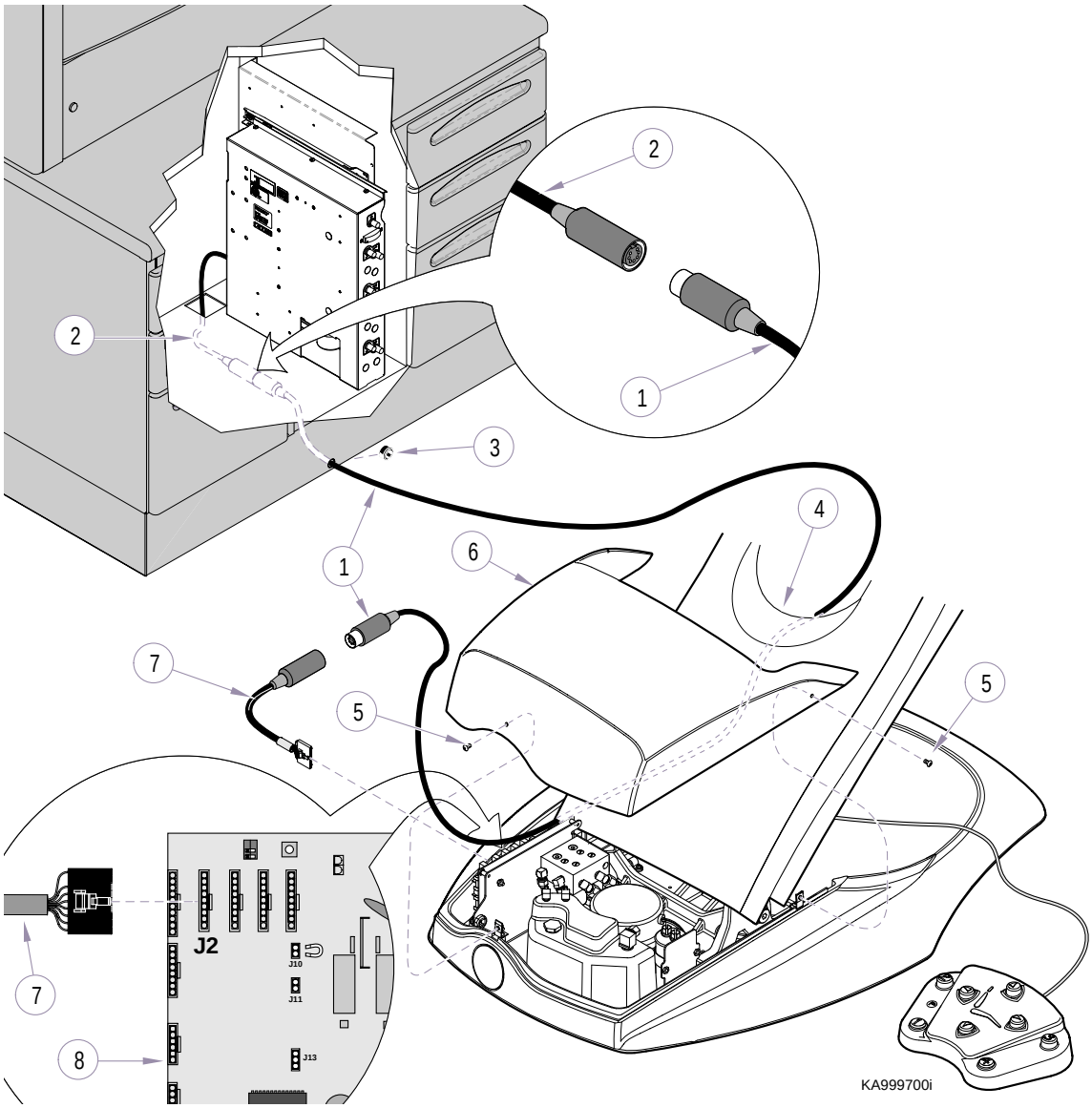

Figure 8. Chair Control Touch Pad Connection *(optional)*

INSTALLATION CHECKLIST

EQUIPMENT ALERT
Answering "NO" to any of the following questions indicates improper installation or a product malfunction. Check all connections, then refer to the Midmark Dental Delivery System Service & Parts manual for corrective action if necessary.

Yes **No**

☐ ☐ With **Master Switch** ON...
Do all handpieces, syringe(s), & vacuum instruments function properly?

☐ ☐ *Does delivery system move easily at pivot points?*
(If necessary, refer to Unit Mount Arm Adjustment procedure in this module)

SPECIFICATIONS

Description **Data**

Pressure Requirements:
Water ..... 30-50 PSI
Air ..... 70-100 PSI

Electrical Requirements:
This control panel unit utilizes low voltage inputs (24V & 12V) and therefore must be powered by Midmark's 300 Watt Power Supply. Refer to Midmark Power Supply installation instructions for electrical input requirements.

All accessories that are attached to the power strip must be limited to the total combined output rating. The output rating (max.) of the unit's power strip is:

1). 24 VAC @ 10A
2). 12 VAC@ 2.5A

Midmark also provides additional internal (18 AWG) wiring to assist the installer in providing additional power from the junction box to the delivery unit for other accessories not sold by Midmark.
Caution: Extreme care must be exercised to not exceed the recommended current and temperature rating of this wiring.

Vacuum Requirements:..... Contact central vacuum unit supplier for this information

Transportation / Storage Conditions

- Ambient Temperature Range: .... -22°F to 140°F (-30°C to 60°C)
- Relative Humidity ..... 10% to 90% (non-condensing)
- Atmospheric Pressure..... 500hPa to 1060 hPa (0.49atm to 1.05atm)

Torque Specifications

Torque specifications apply to hardware used on components unless otherwise noted in installation instructions:

Torque Specifications

Hardware Size	Torque Values
#6	11 to 21 inch / lbs. (1.2 to 2.3 N•m)
#8	20 to 30 inch / lbs. (2.2 to 3.3 N•m)
#10	32 to 42 inch / lbs. (3.6 to 4.8 N•m)
1/4 inch	75 to 85 inch / lbs. (8.5 to 9.6 N•m)
5/16 inch	18 to 22 ft. / lbs. (24.4 to 29.8 N•m)
3/8 inch	31 to 35 ft. / lbs. (42.0 to 47.5 N•m)
1/2 inch	50 to 60 ft. / lbs. (67.8 to 81.4 N•m)

TUBING CONNECTORS

When connecting internal tubing to metal barbed fittings during installation, it is necessary to use the plastic retainers included with operatory components.

*For **1/8 in.** tubing use **Uni-Clamp***
*For **1/4 in.** tubing use **Sleeve***